

Amendment to the Claims

1. (canceled)

2. (currently amended) The catalyst member of claim ±36 wherein the anchor layer is deposited by electric arc spraying a metal feedstock selected from the group consisting of nickel, Ni/Al, Ni/Cr, Ni/Cr/Al/Y, Co/Cr, Co/Cr/Al/Y, Co/Ni/Cr/Al/Y, Fe/Al, Fe/Cr, Fe/Cr/Al, Fe/Cr/Al/Y, Fe/Ni/Al, Fe/Ni/Cr, 300 series stainless steels, 400 series stainless steels, and mixtures of two or more thereof.

3. (original) The catalyst member of claim 2 wherein the anchor layer comprises nickel and aluminum.

4. (original) The catalyst member of claim 3 wherein the aluminum comprises from about 3 to 10 percent of the combined weights of nickel and aluminum in the anchor layer.

5. (original) The catalyst member of claim 3 wherein the aluminum comprises from about 4 to 6 percent aluminum of the combined weights of nickel and aluminum in the anchor layer.

6. (currently amended) The catalyst member of claim ±36 wherein the catalytic material is deposited on the anchor layer and comprises a refractory metal oxide support on which one or more catalytic metal components are dispersed.

7. (currently amended) The catalyst member of claim ±36 comprising a substrate selected from the group consisting of metal substrates and ceramic substrates.

8. (currently amended) An exhaust treatment apparatus comprising the catalyst member of claim ~~13~~36, claim 3 or claim 4 connected in the exhaust flow path of an internal combustion engine.

9. (original) The apparatus of claim 8 wherein the metal substrate comprises the interior surface of a conduit through which the exhaust of an internal combustion engine is flowed prior to discharge of the exhaust.

10. (original) The apparatus of claim 8 wherein the carrier substrate comprises a metal substrate.

11. (original) The apparatus of claim 8 wherein the carrier substrate comprises a ceramic substrate.

12 - 19. (canceled)

20. (currently amended) The catalyst member of claim ~~19~~46 wherein the at least two substrate regions of different substrate densities have thereon different effective loadings of the catalytic material.

21. (currently amended) The catalyst member of claim 36, ~~19~~46 or claim 20 wherein the ~~at least two substrate regions comprise regions of substrates~~ is selected from the group consisting of foamed metal, wire mesh and corrugated foil honeycomb.

22. - 35. (canceled)

36. (currently amended) A method for treating the exhaust stream from an engine, comprising flowing the exhaust stream into contact with a catalyst member comprising:

a carrier substrate having an anchor layer disposed thereon by electric arc spraying; and

catalytic material disposed on the carrier substrate~~the catalyst member of claim 1 or claim 19.~~

37. (currently amended) In a motorcycle comprising an engine and an exhaust treatment apparatus, the improvement comprising that the exhaust treatment apparatus comprises a catalyst member according to any one of claims 36-67 ~~1946~~ or 20.

38. (currently amended) A utility engine comprising an exhaust apparatus comprising a catalyst member according to any one of claims 136-6, 18 or 1946.

39. (original) In a lawn mower comprising an engine and an exhaust treatment apparatus, the improvement comprising that the engine comprises the utility engine of claim 38.

40. - 45 (canceled)

46. (new) A method for treating the exhaust stream from an engine, comprising flowing the exhaust stream into contact with a catalyst member comprising:

a carrier substrate comprising at least two regions of different substrate densities disposed for fluid flow from one region to the other; and

a catalytic material deposited on the at least two substrate regions of different surface area densities.